

Westinghouse

ELECTRIC CORPORATION



AIR ARM BUILDING

DPS-4329
COPY 1 OF 2

PHONE: SOUTHFIELD 1-1000
FRIENDSHIP INT'L AIRPORT
BOX 746, BALTIMORE 3, MD.

18 September 1958

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SUBJECT: Contract FL-3011 - Tools & Test Equipment

Enclosure (1): Three copies Manufacturing Tooling
Enclosure (2): Three copies Test Department Tooling
Enclosure (3): Three copies Engineering Test Equipment

Dear Dan:

Enclosures 1, 2, and 3 list tools and test equipment associated with the subject contract.

The Manufacturing tools listed in Enclosure 1 are estimated at approximately \$56,000 based on the total manufacturing tool costs recorded by our Accounting Department.

The Test Department tooling listed in Enclosure (2) is estimated at approximately \$20,500 based on estimated costs for such items before fabrication. It is to be noted that the test equipment listed includes only a small portion of the test equipment required to test the equipment delivered under the subject contract. Most of it was borrowed from other contracts for similar equipment and modified as necessary to test equipment of the configuration required by this program. Since the borrowed test equipment now modified belongs to other CPFF contracts it has not been listed under this contract. However, the cost of modifying this test equipment was charged to this contract. This accounts for the difference between about \$73,000 which was charged to the contract for all shop test equipment and the estimated value of Enclosure 2 of \$20,500.

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YOU CAN BE SURE ... IF IT'S Westinghouse

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The Engineering Department Test Equipment,
Enclosure 3, is estimated at \$5,800.

As we have indicated previously we may
have a continuing need for a number of these tools and
hope that a suitable arrangement can be made whereby
they will continue to be available.

Sincerely yours,


Sales Engineer

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MANUFACTURING TOOLING

The following APQ-56 tooling was made on the following Westinghouse order numbers: AAD-30158, 30201, 30213, 30367 and 30243.

<u>Tool Number</u>	<u>Description</u>	<u>Tool Number</u>	<u>Description</u>
1JA-7887T12A	Die	2JB-5271TGB	Silk Screen
2JA-5490T1A-2	Form Tool	1JB-5888TKC	Lay Out Temp.
2JA-6073T1A	Silk Screen	2JC-1271T1B	Silk Screen
2JA-6152T1A	Silk Screen	2JC-1271T2B	Silk Screen
2JA-6152T2A	Silk Screen	2JC-1545T1A	Dieplic Die
2JA-6170T1A	Steel Rule Die	2JC-1714TXA	Silk Screen
2JA-6170T2A	Steel Rule Die	2JC-1714TGB	Silk Screen
2JA-6173T1A	Silk Screen	2JC-1785T1A	Broach
2JA-6177TXA	Savage Tool	2JC-1785T1B	Casting Mold
2JA-6177TXB	Stake Tool	2JC-1785T1C	Mill Fixt.
2JA-6177TXC	Silk Screen	2JC-1785T1D	Broach Fixture
2JA-6180T1A	Anvil	2JC-1785T1E	Boring Fixture
2JA-6183T1A	Bushing	2JC-1785T1G	Mill Fixture
2JA-6190T1A	Holding Fixture	2JC-1785T1F	Dr. Fixture
2JA-6190T1B	Silk Screen	2JC-1793T1A	Silk Screen
2JA-6191T1A	Silk Screen	2JC-1794T1A	Silk Screen
2JA-7758TXA	Silk Screen	2JC-3292TXA	Silk Screen
2JA-7758T1B	Silk Screen	2JC-3292TXB	Spanning Tool
2JA-7759TXA	Silk Screen	2JC-3292TGB	Silk Screen
2JA-7759TGB	Silk Screen	2JC-3310T1A	Dr. Jig
2JA-7760TXA	Silk Screen	2JC-3314TXA	Silk Screen
2JA-7760T1B	Silk Screen	1JD-7433T1E	Carrying Case
2JA-7761TXA	Silk Screen	1JD-7469T1A	Slotting Die
2JA-7761T1B	Silk Screen	1JD-7469T1B	Slotting Die
2JA-7762TXA	Silk Screen	1JD-7469T1C	Mill Fixt.
2JA-7762T1B	Silk Screen	1JD-7469T1D	Dr. Jig
2JA-7767T1A	Form Tool	1JD-8855T1A	Special Form Cutter
2JB-2696T1A	Mandrel	1JD-8949T1A	Dr. Jig
2JB-2696T1E	Step Chuck	1JD-9022TXA	Silk Screen
2JB-2698T1A	Lathe Model	1JD-9031T1A	Pattern Equip.
2JB-3686T1A	Silk Screen	1JD-9044T1A	Pattern Equip.
2JB-3715T2A	Plaster Mold	1JD-9031T1B	Face Plate Fixt.
2JB-4158T1A	Silk Screen	1JD-9044T1B	Mill Fixt.
2JB-4191T1A	Silk Screen	1JD-9044T1C	Holding Fixt.
2JB-4205TXA	Silk Screen	1JD-9044T1F	Dr. Jig
2JB-4205T1B	Holding Fixture	1JD-9097TXA	Mill Fixture
2JB-4231T1A	Silk Screen	1JD-9097TXA	Mill Fixture
2JB-4819T1A	Silk Screen	1JD-9097TXB	Silk Screen
2JB-4823T1A	Silk Screen	1JD-9112T1A	Pattern
2JB-4954TXA	Silk Screen	1JD-9857TXB	Silk Screen
2JB-5271TXA	Silk Screen	1JD-9894TXA	Dr. Temp.

<u>Tool Number</u>	<u>Description</u>	<u>Tool Number</u>	<u>Description</u>
1JD-9896TXA	Silk Screen	1JA-2731TSDA	Spinning Tool
1JD-9951T1A	Bend. Block	2JB-3869T1A	Steel Rule Die
1JD-9951TXA	Silk Screen	2JB-3887TXA	Silk Screen
1JD-9951TXB	Silk Screen	2JB-4060T1A	Form Tools
1JH-5805TXA	Special Clamp	2JB-4067TXA	Silk Screen
1JH-5805TXB	Assem. Fixt.	2JB-4067TXB	Silk Screen
1JH-5875TXB	Align. Tool	2JC-1618T1A-2	Pattern
1JH-5875TXC	Spec. Handling Strap	2JC-1623TXA	Silk Screen
1JH-5881TXC	Dr. Temp.	2JC-1623TXB	Silk Screen
1JH-5888TXD	Loc. Tool	2JC-1623TXC	Silk Screen
1JH-5888TXF	Dr. Temp.	2JC-1624T1A	Silk Screen
1JH-5888TXG	Dr. Temp.	2JC-1624TXA	Silk Screen
1JH-5888TXH	Spec. Carbide C Sink	2JC-1626T1A	Silk Screen
1JH-5888TXK	Dr. Temp.	2JC-1689TXA	Brazing Fixt.
1JH-5888TXL	Dr. Temp.	2JC-1709T1A	Silk Screen
1JH-5893TXB	Dr. Temp.	1JD-6745TXA	Silk Screen
1JH-5893TXF	Aligning Temp.	1JD-8909T1A	Silk Screen
Mac. 2C-1545	Flat Pattern Layout	1JD-8916TXA	Silk Screen
Meb. 108871-1	Flat Pattern Layout	1JD-8936TXA	Silk Screen
Meb. 108871-2	Flat Pattern Layout	1JD-8951T1A-2	C Bore Pilot
Mac. 2C-1545	Flat Pattern Layout	1JD-8951T1B-2	C Bore Pilot
2JA-5595T1A	Silk Screen	1JD-8958TXA	Silk Screen
2JB-3819T1A	Silk Screen	1JH-5849T1A	Pattern
2JC-1659TXA	Silk Screen	1JH-5855TXA	Silk Screen
2JC-1660T1A	Silk Screen	1JH-5860TXA	Wiring Form Board
2JC-1264T1E	Back Spot Face Tool	MEA 603R020	Data Sheet
2JC-1264T1F	Dr. Jig	MEC 503R050	Flat Pattern Layout
2JC-1264T1H	Lathe Fixture	MEC 503R050	Flat Pattern Layout
2JC-1789T1A	Forging Die	MED 406R083	Flat Pattern Layout
2JC-1790T1A	Forging Die	MED 406R083	Flat Pattern Layout
2JC-1796T1B	Internal Form Tool	MED 403R020	Flat Pattern Layout
2JC-1796T1D-2	Internal Form Tool	306R103T1A	Flat Pattern Layout
2JC-1796T1E	Dr. Temp.	306R103T1B	Hillver Tape
2JC-1796T1F	Dr. Temp.	406R083TXA	Silk Screen
2JC-1796T1G-2	C Bore Pilot	406R086T1A	Silk Screen
2JC-1796T1H	Dr. Temp.	503R069T1A	Hillver Tape
2JC-1796T1J	Mandrel	503R069T1B	Silk Screen
1JD-9040TXA	Staking Tool	603R022T1A	Wied. Temp.
1JD-9040TXB	Aligning Tool	603R026TXA	Silk Screen
2JB-5259TXA	Silk Screen	703R019TXA	Silk Screen

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<u>Tool Number</u>	<u>Description</u>	<u>Tool Number</u>	<u>Description</u>
1JD-9784TT1	Wiper Block	2JB4120T1A	Silk Screen
1JD-9784TT2	Follow Block	MEB2B2692	Flat Pattern Layout
2JA-5665T1A	Silk Screen	306R033T1A	Silk Screen
2JA-5667TXA	Silk Screen	306R073T1A	Silk Screen
2JB-853TXA	Silk Screen	306R100T1A	Silk Screen
2JB-4976T1A	Silk Screen	306R101T1A	Silk Screen
1JD-8932TXA	Silk Screen	406R129TXB	Silk Screen
1JD-8933T1A	Silk Screen	503R031TXB	Silk Screen
1JD-9850T1A	Wied. Temp.	2JC1269TXB	Silk Screen
1JH-5854TXA	Wiring Form Board	406R128TXB	Mill Fixt.
603R030 TXA	Silk Screen	2JA5686TXA	Alignment Tool
2JB-3844T1A	Silk Screen	2JA6072T1A	Hillver Tape
MED-10-9866	Flat Pattern Layout	2JA7352T1A	Hovis Die
MEB-2B-5256	Flat Patter Layout	2JB3849T2A	Silk Screen
2JB-5610TXA	Loc. Fixt.	2JC1685TXC	Silk Screen
2JB-5610TXB	Silk Screen	2JC1779TXA	Pressure Test Fixt.
2JB-5610TXC	Silk Screen	2JB2686T1A	Silk Screen
2JC-1791TXA	Camera Alignment Tool	1JC3980TXA	Brazing Fixt.
1JC-8016TXA	Metal Mold	1JC3980TXB	Silk Screen
1JC-8016TXB	Cut-Off Fixt.	1JC3980TXC	Silk Screen
2JC-1284TXB	Silk Screen	2JC3293TXA	Silk Screen
2JC-1284TXC	Silk Screen	2JC3294T1A	Punch & Die
1JD-8932TXA	Silk Screen	2JC3294T1B	Silk Screen
1JD-8932T1A	Silk Screen	2JC3295T1A	Silk Screen
1JD-9850T1H	Wied. Temp.	2JC3298T1A	Silk Screen
1JH-5854TXA	Wiring Board	1JD9100T1B	Boring Bar
603R030TXB	Silk Screen	1JD9028T1B	Silk Screen
2JB-3844T1A	Silk Screen	1JD9063TXA	Silk Screen
MEB-2B5256	Flat Pattern Layout	1JD9100T1A	Face Plate Fixt.
MED-2B5256	Flat Pattern Layout	1JD9850T1A	Wied. Temp.
2JB5610TXA	Loc. Fixt.	1JD9850T1B	Silk Screen
2JB5610TXB	Silk Screen	1JD9893T1A	Wied. Temp.
2JB5610TXC	Silk Screen	1JD9894T1A	Wied. Temp.
2JC1791TXA	Camera Alignment Tool	1JD9894TXB	Silk Screen
2JA6104TXA	Silk Screen	1JD9896TXB	Silk Screen
1JC8016TXA	Split Metal Mold	1JA2632T511A	Steel Rule Die
1JC8016TXB	Cut-Off Fixt.	2JA5604T1A	Steel Rule Die
2JC-1284TXB	Silk Screen	2JA5604T2A	Steel Rule Die
2JC-1284TXC	Silk Screen	2JA5604T3A	Steel Rule Die
1JD4944T1A	Dr. Plate	2JA5648T1A	Steel Rule Die
1JH5783TXB	Silk Screen	2JA5648T1A	Steel Rule Die

<u>Tool Number</u>	<u>Description</u>	<u>Tool Number</u>	<u>Description</u>
2JA6012T1A	Steel Rule Die	2JC1750T1B	Dr. Jig
2JB3878T1A	Silk Screen	1JD8882TXA	Silk Screen
2JB3878T2A	Silk Screen	1JD9095TXA	Silk Screen
2JB4087T1A	Steel Rule Die	2JB3662TXB	Silk Screen
2JB4110T1A	Steel Rule Die	2JB3662TXC	Silk Screen
1JC7726T1A	Silk Screen	1JD7494TXB	Silk Screen
2JA7741T1B	Gear Shape Fixt.	1JD8965TXA	Silk Screen
2JA7741T1C	Silk Screen	1JD8973TXA	Silk Screen
2JA7741T1D-2	U/C Tool	1JD9857TXA	Loc. Tool
2JA7742T1D-2	U/C Tool	1JD7433T1B	Extension Arm
2JA7742T1C	Silk Screen	1JA8456T6A	Dr. Temp.
2JA7744TXAA	Spacer	2JA7741T1A	Pantograph Temp.
2JA7745TXA	Spacer	2JA7742T1A	Pantograph Temp.
2JA7745T1A	Fly Cutting Tool	2JA7742T1E	Steop Collet
2JA7749T1A	Hillver Tape	2JC-1545T1A	Dimple Die
2JA7750T1A	Hillver Tape	2JC1623TXC	Silk Screen
2JB5251TXA	Silk Screen	2JC1683TXA	Silk Screen
2JB5252T1A	Silk Screen	2JC1685TXB	Loc. Fixt.
2JB5257T1A	Silk Screen	2JC1709T1A	Silk Screen
2 JC3814T1A	Silk Screen	1JD4650TXB	Silk Screen
2JC3814T1B	Steel Die	1JD7484TXA	Silk Screen
2JC3815TXA	Special Back Spot Facer	1JD8958TXA	Silk Screen
2JC3821T1A	Silk Screen	1JD8997TXA	Silk Screen
2JC3821T1B	Hillver Tape	1JD9043T1A-2	Carrying Case
2JC3824T1A	Silk Screen	1JD9074TXA	Silk Screen
1JD9947T1A	Silk Screen	1JD9074TXB	Silk Screen
MEA21B5252	Hillver Data Sheet	1JD9850T1B	Silk Screen
1JD9037TXA-6	Silk Screen	1JD9850T1B	Silk Screen
406R116T1B	Hillver Tape	1JD9893TXA	Silk Screen
406R116T1A	Silk Screen	1JD9918TXA	Silk Screen
406R125TXA	Silk Screen	1JH5805TXB	Assem. Fixt.
2JB3891T1A	Silk Screen	1JH5805TXC	Handling Container
2JB4073T1A	Silk Screen	1JH5830TXA-3	Wiring Fixt.
1JD8971TXA	Silk Screen	1JH5881T1I	Dr. Temp.
MED10-9856	Flat Pattern Layout	1JH5888TXA-2	Mounting Cradle Ass.
2JA-7286T1I	Holding Fixture	1JH5888TXA-12	Locking Bands
2JC1652T1A	Silk Screen	1JH5888TXM	Handling Container
2JC1656T1A	Steel Rule Die	503R031TXA	Brazing Fixt.
2JC1750T1A	Artwork Tooling	703R019TXA	Silk Screen

Sheet 1 of 1

TEST DEPARTMENT TOOLING

Tools built by Test Facilities on following Westinghouse Orders

<u>Description</u>	<u>Tool Number</u>
<u>3C - AAD-30201</u>	
Navigation Indicator 10KV Power Supply Recorder Panel	66F1JD9918TFB1 66F603R029TFD1 66F1JH4118TFB1 Sub 2
<u>3C - AAD-30213</u>	
C617, C658 Molded Unit Panel C618 & C555 Molded Unit Panel H619 Molded Unit Panel B634, C656 Molded Unit Panel	AF1JD9065TFB1 AF1JD9063TFB1 AF1JD9064TFB1 AF1JD9089TFB1
<u>3C - AAD-30158</u>	
100 KW Power Supply FT Adapter Unit Sync. Alignment Control Panel Three Phase Saturable Reactor Hi Power Breakdown	66F1JH5808TFB1Sub 2 66F1JD8854TFB1 66F1JH5813TFB1 66F1JB6490TFB1 66F1JD5805TFB1

Sheet 1 of 2

ENGINEERING TEST EQUIPMENT

Procured on Westinghouse General Orders AAD-30158, 30175, 30201,
30205, 30213, 30230 and 30243

<u>Qty.</u>	<u>Description</u>	<u>Part Number</u>
2	Photo Cell Test Set	(Engrg. Lab Fabricated)
1	Rotary Table	Benson ~ BH-9
1	Generator, AC	Model 31405
1	Regulator	Model 51405
1	Pressurized Horn	2JC2445-1
2	Resolution Test Sets	WECORP 603R051G01
1	Attenuator	FR Machine Work S/N 117 Type U162F
1	Thermister	Microwave P525 S/N 6